

Message Text

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INFO OCT-01 ARA-10 ISO-00 L-03 NASA-02 ACDA-10 COME-00

PM-04 CIAE-00 INR-07 NSAE-00 DODE-00 NSC-05 NSCE-00

INRE-00 SSO-00 SS-15 /063 R

DRAFTED BY OES/APT/SA:DAVOGT:VML

APPROVED BY OES/APT/SA:DAVOGT

ARA/BR:RELTZ (SUBS)

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NASA/I:JIMMERMAN

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E.O. 11652:N/A

TAGS:TSPA:BR

SUBJECT: MOU -- REMOTE SENSING

TEXT OF MOU AS FOLLOWS: TITLE QUOTE MEMORANDUM OF UNDER-
STANDING BETWEEN THE BRAZILIAN COMMISSION FOR SPACE ACTIVI-
TIES (COBAE) AND THE UNITED STATES NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION (NASA) UNQUOTE.

PARA 1 QUOTE: THE PURPOSES OF THIS AGREEMENT ARE TO PROVIDE
CONTINUATION OF THE COLLABORATIVE EXPERIMENTAL PROGRAM IN
THE FIELD OF REMOTE SENSING SURVEYS OF EARTH RESOURCES BE-
TWEEN COBAE AND NASA AND TO SET FORTH THE RESPONSIBILITIES
OF THE PARTIES AND THE PROCEDURES FOR PROVIDING FOR (A)
DIRECT ACCESS, BY A GROUND STATION IN OPERATION IN BRAZIL
BY THE INSTITUTE FOR SPACE RESEARCH (INPE) OF THE BRAZILIAN
NATIONAL COUNCIL FOR THE DEVELOPMENT OF SCIENCE AND TECH-
NOLOGY (CNPQ) TO NASA LANDSAT-1 AND LANDSAT-2 SATELLITE
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DATA AND TO THE DATA FROM ANY FUTURE LANDSAT EXPERIMENTAL
SATELLITES WHICH NASA MAY LAUNCH, AND (B) AVAILABILITY TO
NASA OF DATA ACQUIRED BY THE STATION PURSUANT TO (A) ABOVE,
SUBJECT TO THE PROVISIONS WHICH FOLLOW. COBAE HEREBY

DESIGNATES INPE THROUGH CNPQ AS THE BRAZILIAN OPERATIONAL AGENCY.

PARA 2 QUOTE: COBAE AND THE OPERATIONAL AGENCY CNPQ/INPE WILL USE THEIR BEST EFFORTS TO:

SUBPARA A: CONTINUE TO OPERATE INPE GROUND STATION FACILITIES AT CUIABA AND CACHOEIRA PAULISTA FOR ACQUISITION AND PROCESSING OF LANDSAT DATA AS WELL AS OTHER NON-SPACE DATA OF INTEREST TO THE CNPQ/INPE ENTIRELY AT ITS OWN COST, INCLUDING THE COST OF THE NECESSARY COMMUNICATION LINKS WITH THE NASA LANDSAT OPERATIONS CONTROL CENTER/NASA DATA PROCESSING FACILITY (OCC/NDPF) AT THE GODDARD SPACE FLIGHT CENTER.

SUBPARA B: PROVIDE PROCESSED DATA (IMAGERY AND DIGITAL PRODUCTS) TO LANDSAT PRINCIPAL INVESTIGATORS DULY SELECTED BY NASA WHOSE TEST SITES ARE IN RANGE OF THE BRAZILIAN DATA ACQUISITION STATION FOR THE PERIOD OF COVERAGE PROMISED TO THEM AND UNDER THE SAME CONDITIONS AS NASA PROVIDES DATA TO PRINCIPAL INVESTIGATORS. SHOULD ANOTHER COUNTRY IN THE REGION OPERATE LANDSAT FACILITIES, COBAE'S OBLIGATION TO PROVIDE DATA TO PRINCIPAL INVESTIGATORS IN THAT COUNTRY WILL TERMINATE AS SOON AS THESE FACILITIES ARE CAPABLE OF PROVIDING THIS SERVICE. CNPQ/INPE WILL CONTINUE TO SERVE PRINCIPAL INVESTIGATORS IN COUNTRIES WITHIN RANGE OF THE CUIABA STATION WHICH DO NOT OPERATE LANDSAT FACILITIES UNLESS AND UNTIL ALTERNATIVE ARRANGEMENTS ARE CONCLUDED.

SUBPARA C: PROVIDE, TO THE BEST OF ITS ABILITY, ANY SUPPORT REQUESTED BY NASA IN A SPACECRAFT EMERGENCY CONDITION, SUCH AS THE PROVISION OF DATA INDICATED IN PARAGRAPH 2 (E) BELOW SHOULD THE ON-BOARD TAPE RECORDERS FAIL.

SUBPARA (D): PROVIDE QUARTERLY REPORTS IN ENGLISH TO NASA ON THE PROGRESS AND RESULTS OF THE CNPQ/INPE EXPERIMENTAL UNCLASSIFIED

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PROGRAM WITH RESPECT ESPECIALLY TO THE ABILITY TO APPLY DATA AND ANALYSES OBTAINED TO REAL-TIME DECISION MAKING, AND THE PRINCIPAL APPLICATIONS MADE.

SUBPARA (E): MAKE AVAILABLE TO NASA, ON A COST-FREE BASIS AND IN THE NASA-PREFERRED FORMAT (NEGATIVE IMAGERY FORMAT WITH IDENTIFYING ANNOTATION), SUCH COPIES OF THE LANDSAT DATA IT ACQUIRES AND PROCESSES AS NASA MAY REQUEST IN REASONABLE QUANTITIES (EXCEPT IN EMERGENCY CONDITIONS AS NOTED IN PARAGRAPH 2(C) ABOVE). THESE DATA PROVIDED TO NASA BY CNPQ/INPE WILL BE MADE AVAILABLE TO THE PUBLIC FROM US SOURCES ON PRECISELY THE SAME TERMS AS DATA ACQUIRED DIRECTLY BY NASA. THESE PROVISIONS APPLY AS WELL

TO SELECTED DUPLICATE COMPUTER COMPATIBLE TAPES. PUBLIC REQUESTS FOR DATA ARE COVERED IN ITEM 5(F). COORDINATION AMONG OTHER FACILITIES OPERATING UNDER AGREEMENT WITH NASA WOULD BE HIGHLY DESIRABLE. CNPQ/INPE MAY CONSIDER THE POSSIBILITY OF PROCESSING DATA ACQUIRED BY OTHER STATIONS IN LATIN AMERICA AT THEIR REQUEST AND AT COSTS TO BE ESTABLISHED.

SUBPARA F: INCLUDE AS OUTPUT DATA FROM THE CACHOEIRA PAULISTA STATION COMPUTER COMPATIBLE TAPES AND 70MM OR 9 INCH ROLL FILM.

PARA 3 QUOTE FOR ITS PART,NASA WILL USE ITS BEST EFFORTS TO:

SUBPARA (A) PROGRAM LANDSAT-1, LANDSAT-2, AND ANY SUBSEQUENT EXPERIMENTAL LANDSAT-TYPE SATELLITE TO ACQUIRE DATA AREAS ACCESSIBLE FOR DIRECT READ-OUT BY THE BRAZILIAN STATION. THE FREQUENCY OF SUCH PROGRAMMING WILL BE SUBJECT TO MUTUAL AGREEMENT BY THE PROJECT MANAGERS (SEE BELOW).

SUBPARA (B): PROVIDE TO CNPQ/INPE ORBITAL ELEMENTS FOR CALCULATING THE ANTENNA POINTING ANGLES NECESSARY TO

ACQUIRE THE LANDSAT SPACECRAFT TRANSMITTED SIGNAL AND FOR USE IN PROCESSING THE DATA ACQUIRED.

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SUBPARA (C) MAKE AVAILABLE, FOR COMPARISON PURPOSES, A LIMITED NUMBER OF SELECTED NASA DATA TAPES COVERING PORTIONS OF THE AREA ACCESSIBLE TO THE CUIABA STATION.

SUBPARA (D) KEEP CNPQ/INPE INFORMED OF OTHER PROSPECTIVE LANDSAT GROUND STATION FACILITIES IN THE AREA SO THAT REGIONAL COORDINATION CAN BE EFFECTED.

PARA 4 QUOTE: TO IMPLEMENT THIS AGREEMENT AND CONTINUATION OF THE PROGRAM, CNPQ/INPE AND NASA WILL EACH DESIGNATE PROJECT MANAGERS TO BE RESPONSIBLE FOR COORDINATING THE AGREED FUNCTIONS AND RESPONSIBILITIES OF EACH SIDE WITH THE OTHER. THE PROJECT MANAGERS WILL BE CO-CHAIRMEN OF A JOINT WORKING GROUP WHICH WILL BE THE PRINCIPAL INSTRUMENT FOR ASSURING THE EXECUTION OF THE PROJECT AND FOR KEEPING BOTH SIDES CONTINUOUSLY INFORMED OF THE PROJECT STATUS. THE JOINT WORKING GROUP MAY ESTABLISH SUCH COMMITTEES AS REQUIRED TO CARRY OUT THE PROJECT.

PARA 5 QUOTE: THE FOLLOWING ADDITIONAL UNDERSTANDINGS ARE CONFIRMED:

SUBPARA (A): CNPQ/INPE WILL RESOLVE ANY RADIO FREQUENCY DIFFICULTIES IN THE REGION TO THE SATISFACTION OF THE PARTIES CONCERNED SO THIS COOPERATION CAN PROCEED WITHOUT DIFFICULTY.

SUBPARA (B): THE RESPONSIBILITY FOR SPACECRAFT CONTROL, HEALTH AND STATUS WILL REMAIN WITH NASA THROUGHOUT THE PROGRAM.

SUBPARA (C): THIS AGREEMENT ASSURES CNPQ/INPE ACCESS TO LANDSAT-1 AND/OR LANDSAT-2 WITHOUT CHARGE UNTIL 30 JUNE 1976. IT IS UNDERSTOOD, HOWEVER, THAT NASA WILL THEREAFTER, AFTER CONSULTATION WITH COBAE, INTRODUCE A COST-SHARING ARRANGEMENT, SUCH AS A USERS' FEE, WHICH HAS BEEN GENERALLY ESTABLISHED FOR PARTICIPATING GROUND STATIONS.

SUBPARA (D): IT IS UNDERSTOOD AT THIS STAGE THAT NASA CANNOT MAKE A FIRM COMMITMENT REGARDING THE LAUNCHING OF FUTURE LANDSAT-TYPE SATELLITES.

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SUBPARA(E): DECISIONS TAKEN BY THE INTERNATIONAL TELECOMMUNICATIONS UNION REQUIRE THAT RADIO FREQUENCIES FOR FUTURE OPERATIONAL LANDSAT-TYPE SATELLITES WILL DIFFER FROM THOSE CURRENTLY USED FOR EXPERIMENTAL SATELLITES.

SUBPARA (F): FOR THE PURPOSES OF THIS AGREEMENT IT IS UNDERSTOOD THAT CNPQ/INPE AND OTHER BRAZILIAN GOVERNMENT AGENCIES PARTICIPATING IN THE PROGRAM WILL PURSUE A POLICY OF DISSEMINATION OF LANDSAT DATA COMPARABLE TO THE DISSEMINATION POLICY MAINTAINED BY NASA AND THE OTHER US AGENCIES PARTICIPATING IN THE PROGRAM. CNPQ/INPE WILL THUS ENSURE UNRESTRICTED PUBLIC AVAILABILITY OF ALL EARTH RESOURCES SATELLITE DATA OF AREAS WITHIN RANGE OF THE BRAZILIAN GROUND STATION AT CHARGES SIMILAR TO PRICE SCHEDULES AS ESTABLISHED OR TO BE ESTABLISHED BY THE EROS CENTER, AND WILL PROVIDE, ON THE SAME BASIS AS NASA, PROCESSED LANDSAT DATA REQUIRED BY PRINCIPAL INVESTIGATORS AS SELECTED UNDER THE NASA LANDSAT INVESTIGATIONS PROGRAM, AND WHOSE TEST SITES ARE IN RANGE OF BRAZIL'S GROUND STATION.

SUBPARA (G): CATALOG LISTINGS OF LANDSAT DATA PROCESSED BY THE CACHOEIRA PAULISTA STATION AS WELL AS GROUND STATION TAPE RECORDER LOGS WILL BE PROVIDED TO NASA ON A MONTHLY BASIS. ALSO, NASA WILL USE ITS BEST EFFORTS TO NOTIFY (ADVISE?) CNPQ/INPE OF REQUESTS RECEIVED AT THE EROS DATA CENTER FOR DATA ON BRAZIL.

SUBPARA (H): TRAINING AND EXCHANGE OF TECHNICAL PERSONNEL WILL TAKE PLACE AS MUTUALLY AGREED.

SUBPARA (I): CNPQ/INPE AND NASA WILL FREELY SHARE AND EX-

CHANGE TECHNICAL INFORMATION AS MUTUALLY AGREED AND CONSISTENT WITH THE EXPORT REGULATIONS OF THE TWO COUNTRIES.

SUBPARA (J): IT IS UNDERSTOOD THAT THIS PROJECT IS EXPERIMENTAL IN CHARACTER AND SUBJECT TO CHANGE IN ACCORDANCE WITH CHANGES IN TECHNICAL REQUIREMENTS AND OPPORTUNITIES.

SUBPARA (K): CNPQ/INPE AND NASA MAY EACH RELEASE GENERAL INFORMATION TO THE PUBLIC REGARDING THE CONDUCT OF THEIR UNCLASSIFIED

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OWN PORTION OF THE PROJECT AS DESIRED AND, INSOFAR AS PARTICIPATION OF THE OTHER AGENCY IS CONCERNED, AFTER SUITABLE COORDINATION.

SUBPARA (L): CNPQ/INPE AND ANASA WILL ASSURE THAT THE PROJECT IS APPROPRIATELY RECORDED IN STILL AND MOTION PICTURE PHOTOGRAPHY AND THAT THE PHOTOGRAPHY IS MADE AVAILABLE TO THE OTHER AGENCY UPON REQUEST FOR PUBLIC INFORMATION PURPOSES.

SUBPARA (M): IT IS UNDERSTOOD THAT THE ABILITY OF CNPQ/INPE AND NASA TO CARRY OUT THE RESPONSIBILITIES OF THIS AGREEMENT IS SUBJECT TO THE AVAILABILITY OF APPROPRIATED FUNDS.

PARA 6 QUOTE: IT IS UNDERSTOOD THAT THE AVAILABILITY OF DATA UNDER ANY OF THE ABOVE PARAGRAPHS SHALL NOT PREJUDICE ANY RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER INTERNATIONAL LAW WHICH MAY BE ESTABLISHED IN THE FUTURE WITH RESPECT TO REMOTE SENSING ACTIVITIES.

PARA 7 QUOTE: THIS MEMORANDUM OF UNDERSTANDING SHALL CONTINUE IN FORCE FOR TWO YEARS, SUBJECT TO EXTENSION AS MAY BE AGREED BY COBAE AND NASA.

PARA 8 QUOTE: THIS MEMORANDUM OF UNDERSTANDING SHALL ENTER INTO FORCE UPON AN EXCHANGE OF NOTES BETWEEN THE GOVERNMENTS CONFIRMING ITS PROVISIONS. UNQUOTE

(NAME) (NAME)
BRAZILIAN COMMISSION FOR SPACE ACTIVITIES (COBAE) FOR THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

(DATE) (DATE) KISSINGER

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Message Attributes

Automatic Decaptioning: X
Capture Date: 15 SEP 1999
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: REMOTE SENSING, AGREEMENTS, DIPLOMATIC COMMUNICATIONS
Control Number: n/a
Copy: SINGLE
Draft Date: 13 MAY 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976STATE117879
Document Source: ADS
Document Unique ID: 00
Drafter: OES/APT/SA:DAVOGT:VML
Enclosure: n/a
Executive Order: N/A
Errors: n/a
Film Number: D760185-0479
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t197605109/baaaeozr.tel
Line Count: 266
Locator: TEXT ON-LINE, TEXT ON MICROFILM
Office: ORIGIN OES
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 5
Previous Channel Indicators:
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: CollinP0
Review Comment: n/a
Review Content Flags:
Review Date: 30 JUN 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <30 JUN 2004 by wolfsd>; APPROVED <21 JAN 2005 by CollinP0>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: MOU -- REMOTE SENSING
TAGS: TSPA, BR, US
To: BRASILIA
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006